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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/799.008 03/12/2004		Lakhi N. Goenka	10541-1941	7568		
29074	7590 08/17/2006		EXAM	EXAMINER		
VISTEON		PHILLIPS, FORREST M				
C/O BRINKS HOFER GILSON & LIONE PO BOX 10395			ART UNIT	PAPER NUMBER		
CHICAGO, IL 60610			2837	-		

DATE MAILED: 08/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/799,	008	GOENKA ET AL.				
		Examin	er	Art Unit				
		Forrest	M. Phillips	2837				
Period fo	The MAILING DATE of this communi r Reply	cation appears on t	he cover sheet with the c	orrespondence ad	dress			
A SHO WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MASSIONS OF time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF The street of 37 CFR 1.136(a). In notation interest period will apply and will, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be time will expire SIX (6) MONTHS from pplication to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status								
2a)☐ 3)☐	1) ☐ Responsive to communication(s) filed on 31 July 2006.  2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)□ 6)⊠ 7)□	<ul> <li>4)  Claim(s) 1-19 is/are pending in the application.</li> <li>4a) Of the above claim(s) 2,8-11and16-19 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,3-7 and 12-15 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Applicati	on Papers	•						
10)⊠	The specification is objected to by the The drawing(s) filed on 12 March 200 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	$\underline{4}$ is/are: a) $\square$ accortion to the drawing(s) the correction is requ	be held in abeyance. See tired if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).			
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35.U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date <u>3/12/04</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

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### **DETAILED ACTION**

#### Election/Restrictions

Claims 2,8-11, and 16-19 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 7/31/06.

Applicant's election without traverse of embodiment 1of figure 1 in the reply filed on 7/31/06 is acknowledged.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim1 is rejected under 35 U.S.C. 102(e) as being anticipated by Kostun et al (US6792907).

With respect to claim 1 Kostun discloses a resonator for attenuating acoustic pressure pulsation in an air passage, the resonator comprising: a neck (24 in figure 1) attached in a side branch configuration with the air passage, the neck having a neck length; at least one wall forming a resonator chamber (12 in figure 1), a first member (14 in figure 1) located within the resonator chamber, the first member cooperating with the

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at least one wall to for a resonator volume (20 in figure 1), and a first actuator (18 in figure 1) coupled to the first member, and configured to translate the first member changing the resonator volume and neck length (column 3 lines 11-15).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kostun in view of Field et al (US5475189).

With respect to claim 3 Kostun discloses the resonator according to claim 1.

Kostun does not disclose expressly wherein the first actuator includes a motor and a screw.

Field teaches the use of a motor (50 in figure) and a screw (40 in figure) as a means of translating a member to change the volume of a resonator.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Field to use a motor and a screw as an actuator with the resonator of Kostun.

The motivation for doing so would be to provide an effective and easily controlled means of varying the volume.

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Claims 4,5,7, 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kostun in view of Sawada et al (US4539947).

With respect to claim 4 Kostun discloses the resonator according to claim 1.

Kostun does not disclose further comprising a second actuator coupled to the first member and the neck.

Sawada discloses an actuator (18 in figure 2) coupled with the back wall of a resonator and coupled to the neck (15 in figure 2).

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Sawada to have an actuator coupled with the neck and the back wall with the resonator of Kostun. As The back wall of Kostun's resonator is the movable member the second actuator would be coupled with the first member.

The motivation for doing so would be to further tune the resonator via an easily controlled mechanism.

With respect to claim 5 Sawada further discloses wherein the second actuator is configured to vary the neck length (refer to figures 5 and 6).

With respect to claim 7 Sawada further discloses further comprising a second member (15b in figure 2) coupled to the neck and configured to change the resonator volume in relation to the neck length (refer to figures 5 and 6).

With respect to claim 12 Kostun discloses a resonator for attenuating acoustic pressure pulsation from an air passage, a neck (24 in figure 1) attached in a side branch configuration with the air passage, the neck having a neck length; at least one wall forming a resonator chamber (12 in figure 1), a first member (14 in figure 1) located

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within the resonator chamber, the first member cooperating with the at least one wall to for a resonator volume (20 in figure 1), and a first actuator (18 in figure 1) coupled to the first member, and configured to translate the first member changing the resonator volume and neck length (column 3 lines 11-15).

Kostun does not disclose a second actuator coupled with the first member and the neck.

Sawada discloses an actuator coupled with the an actuator (18 in figure 2) coupled with the back wall of a resonator and coupled to the neck (15 in figure 2).

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Sawada to have an actuator coupled with the neck and the back wall with the resonator of Kostun. As The back wall of Kostun's resonator is the movable member the second actuator would be coupled with the first member.

The motivation for doing so would be to further tune the resonator via an easily controlled mechanism.

With respect to claim 13 Sawada further discloses wherein the second actuator is configured to vary the neck length (refer to figures 5 and 6).

With respect to claim 15 Kostun discloses a resonator for attenuating acoustic vibration from an air passage, the resonator comprising: a neck (24 in figure 1) attached in a side branch configuration with the air passage, the neck having a neck length; at least one wall forming a resonator chamber (12 in figure 1), a first member (14 in figure 1) located within the resonator chamber, the first member cooperating with the at least one wall to for a resonator volume (20 in figure 1), and a first actuator (18 in figure 1)

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coupled to the first member, and configured to translate the first member changing the resonator volume and neck length (column 3 lines 11-15).

Kostun does not disclose a second member coupled to the neck and configured to change the resonator volume in relation to the neck length.

Sawada discloses a second member (15b in figure 2) coupled to the neck and configured to change the resonator volume in relation to the neck length (see figures 5 and 6).

Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kostun in view of Sawada as applied to claims 5 and 12 above, and further in view of Feild.

With respect to claim 6 Kostun in view of Sawada discloses the resonator according to claim 5.

Kostun in view of Sawada does not disclose wherein the second actuator includes motor and a screw.

Field discloses the use of a motor (50 in figure) and a screw (40 in figure) as an actuator for varying resonator characteristics.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Field to use a motor and a screw as the second actuator as taught by Kostun in view of Sawada.

The motivation for doing so would be to provide an effective and easily controlled actuator for moving the members.

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With respect to claim 14 Kostun in view of Sawada discloses the resonator according to claim 12.

Kostun in view of Sawada does not disclose wherein the second actuator includes motor and a screw.

Field discloses the use of a motor (50 in figure) and a screw (40 in figure) as an actuator for varying resonator characteristics.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bloomer (US6422192); Marks (US7055484).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Forrest M. Phillips whose telephone number is 5712729020. The examiner can normally be reached on Monday through Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on 5712721988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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